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=> glucan and "lactic acid"

15149 GLUCAN

4353 GLUCANS

16311 GLUCAN

(GLUCAN OR GLUCANS)

105468 "LACTIC"

28 "LACTICS"

105477 "LACTIC"

("LACTIC" OR "LACTICS")

4410974 "ACID"

1584566 "ACIDS"

4911875 "ACID"

("ACID" OR "ACIDS")

90637 "LACTIC ACID"

("LACTIC"(W) "ACID")

L1 243 GLUCAN AND "LACTIC ACID"

=> glucan and enterococcus

15149 GLUCAN

4353 GLUCANS

16311 GLUCAN

(GLUCAN OR GLUCANS)

10964 ENTEROCOCCUS

1 ENTEROCOCCUSES

10965 ENTEROCOCCUS

(ENTEROCOCCUS OR ENTEROCOCCUSES)

L2 32 GLUCAN AND ENTEROCOCCUS

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L2 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:475342 CAPLUS

DOCUMENT NUMBER: 146:500125

TITLE: Enzyme supplements in broiler chicken diets: in vitro

and in vivo effects on bacterial growth

AUTHOR(S): Rosin, Erin A.; Blank, Greg; Slominski, Bogdan A.;

Holley, Rick A.

CORPORATE SOURCE: Department of Food Science, University of Manitoba,

Winnipeg, MB, R3T 2N2, Can.

SOURCE: Journal of the Science of Food and Agriculture (2007),

87(6), 1009-1020

CODEN: JSFAAE; ISSN: 0022-5142

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Increasing the growth performance of broiler chickens by supplementing their diets with exogenous enzymes can also contribute to pos. changes in gut health. In this respect the growth of various bacteria normally associated with the gastrointestinal tract of poultry was assessed in vitro using a medium containing arabinoxylan, β- glucan, guar gum and raffinose and their corresponding enzymes. Overall, enzymes releasing the largest amts. of free sugars yielded the largest increase in bacterial nos. Accordingly, β- glucan and raffinose treated with their resp. enzymes promoted the largest number of bacterial types, reaching a min. of 1.0 log10 population within 6 h at 40 °C. A broiler chicken growth trial was also conducted using wheat-, barley- and corn-based diets with and without enzyme and probiotic addition Escherichia coli, coliforms, enterococci and aerobic and anaerobic sporeformers were monitored for growth in both the caecum and ileum. Enzyme supplementation reduced E. coli levels in the caecum of broilers fed wheat- or corn-based diets. A further reduction in E. coli nos. was observed in broilers fed the

diets supplemented with a combination of enzyme and probiotic. Enzyme supplementation had much less of an effect on microbial populations in the ileum. Inclusion of probiotics reduced E. coli levels in the caecum and ileum but only in broilers fed wheat- and corn-based diets. Anaerobic spore levels in the ileum increased in all diets containing probiotic. Overall, inclusion of enzymes or probiotics exhibited mixed effects on gut

bacteria, depending on the nature of the carbohydrate source and enzyme.

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS

L2 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2006:1113318 CAPLUS

DOCUMENT NUMBER: 145:453620

TITLE: Beta 1,3-qlucan recognition protein from the

mosquito, Armigeres subalbatus, is involved in the recognition of distinct types of bacteria in innate

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

immune responses

AUTHOR(S): Wang, Xinguo; Rocheleau, Thomas A.; Fuchs, Jeremy F.;

Christensen, Bruce M.

CORPORATE SOURCE: Department of Animal Health and Biomedical Sciences,

University of Wisconsin-Madison, Madison, WI, 53706,

USA

SOURCE: Cellular Microbiology (2006), 8(10), 1581-1590

CODEN: CEMIF5; ISSN: 1462-5814

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The activation of an immune response to invading microorganisms generally requires recognition by pattern recognition receptors. β1,3-Glucan recognition proteins (GRPs) have specific affinity for β1,3-glucan, a component on the surface of fungi and bacteria. In this study, the authors show that GRP from Armigeres

subalbatus mosquitoes (AsGRP) is able to bind different bacterial species,

and that this binding varies from species to species and is independent of Gram type. AsGRP knockdown with double-stranded RNA increases the mortality of mosquitoes to those bacteria that strongly bind AsGRP, but not to bacteria that do not detectably bind AsGRP. This increase in susceptibility is partially evidenced by decreased melanization in Salmonella typhimurium. Furthermore, AsGRP expression is differentially affected by the presence of different species of bacteria. These results demonstrate that AsGRP is selective in its affinity to different bacteria and; therefore, plays a role in the antibacterial immune response of mosquitoes.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:703768 CAPLUS

DOCUMENT NUMBER: 146:269854

TITLE: Isolation and identification of mixed linked B-

glucan degrading bacteria in the intestine of broiler chickens and partial characterization of

respective $1,3-1,4-\beta$ -glucanase activities

AUTHOR(S):

Beckmann, Lutz; Simon, Ortwin; Vahjen, Wilfried Institute for Animal Nutrition, Faculty of Veterinary CORPORATE SOURCE:

Medicine, Free University of Berlin, Berlin, D-14195,

Germany

SOURCE: Journal of Basic Microbiology (2006), 46(3), 175-185

> CODEN: JBMIEQ; ISSN: 0233-111X Wiley-VCH Verlag GmbH & Co. KGaA

PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

Media with $1,3-1,4-\beta$ - glucans as selective markers were used

for isolation of non-starch-polysaccharide (NSP) degrading bacteria from

the intestinal tract of broiler chicken. Formerly unknown

 $1,3-1,4-\beta$ -endoglucanase activities in various bacterial species were

identified in this study. Enterococcus faecium, Streptococcus,

Bacteroides, and Clostridium strains seem to be responsible for degradation of

mixed linked β - glucans in the small intestine and in the

hind gut of chickens. Strict anaerobic bacteria (Bacteroides ovatus, B. uniformis, presumably B. capillosus and Clostridium perfringens) as well as an unidentified bacterium with 98% 16S rDNA homol. to an uncultured chicken cecum bacterium were isolated. Addnl., Streptococcus bovis with

1,3-1,4-β-endoglucanase activity was also detected. Different

1,3-1,4- β -endoglucanase activity profiles were observed in SDS/PAGE zymograms.

REFERENCE COUNT:

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS 43 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:357043 CAPLUS

DOCUMENT NUMBER: 144:368972

TITLE: Antidiarrheal Saccharomyces as dietary supplement and

feed additive

Tanaka, Shinichiro; Tsumura, Sanae; Yoshida, Naoto INVENTOR(S):

Zentatsusha Y. K., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 11 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	·			-,
JP 2006101784	A	20060420	JP 2004-294137	20041006
PRIORITY APPLN. INFO.:	and the second		JP 2004-294137	20041006
AB The antidiarrheal p	robioti	c Saccharom	yces is useful for ma	king

antidiarrheal feed additive for control of loose passage and diarrhea, and nutrition supplement. Addnl., $\beta\text{-}$ glucan and/or lactic acid bacteria such as Enterococcus may also be used along with the Saccharomyces for making the antidiarrheal feed additive and nutrition supplement. The physiol. and morphol. characteristics of the antidiarrheal Saccharomyces were also given.

L2 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:272729 CAPLUS

DOCUMENT NUMBER: 144:310457

TITLE: Protective anti-glucan antibodies with

preference for β -1,3- glucans

INVENTOR(S): Cassone, Antonio

PATENT ASSIGNEE(S): Italy

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

		rent :				KIND DATE					APPL									
	WO	2006	0303	18		A2		2006	0323							2	0050	914		
	WO	2006	0303	18		A3		2006	0526	٠.										
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,		
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KP,	KR,	KZ,		
	LC, LK, LR, LS, L'						LT.	LU.	LV.	MA.	MD.	MG.	MK.	MN.	MW.	MX.	MZ.	NA.		
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			GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,	AZ,	BY,		
			KG,	KZ,	MD,	RU,	TJ,													
	CA	2580	362			A 1		2006	0323		CA 2	005-3	2580	362		2	0050	914		
	ΕP	1789	448			A2		2007	0530		EP 2	005-	7918:	21		2	0050	914		
		R:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,		
								LV,												
PRIO	RIT	Y APP				,		,			GB 2	-						914		
									WO 2005-IB3153 W 20050914											
AB	The	a 211t	hor	diec	1000	e mo	nocl	clonal antibodies that bind to β -						0050.	/ 1 1					
ഹ										ducing the antibodies, and use of										
	_	•	-			-				cing the antibodies, and icrobial infections. In										

AB The author discloses monoclonal antibodies that bind to β -1,3-glucan, hybridoma cell lines producing the antibodies, and use of such antibodies for treatment of microbial infections. In one example, , an anti- β -1,3- glucan antibody was shown to be protective against systemic fungal infection with Candida albicans.

L2 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1151664 CAPLUS

DOCUMENT NUMBER: 145:162957

TITLE: Antimicrobial activity of pycnogenol

AUTHOR(S): Torras, Maria Angeles Calvo; Faura, Carles Adelantado;

Schonlau, F.; Rohdewald, P.

CORPORATE SOURCE: Veterinary Faculty, University Autonomous of

Barcelona, Spain

SOURCE: Phytotherapy Research (2005), 19(7), 647-648

CODEN: PHYREH; ISSN: 0951-418X

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Pycnogenol, a standardized extract of Pinus pinaster bark, was tested for its antimicrobial activity against 23 different pathogenic prokaryotic (gram-pos. and gram-neg.) and eukaryotic (yeast and fungi) microorganisms

Pycnogenol inhibited the growth of all the tested microorganisms in min. concns. ranging from 20 to 250 μ g/mL. Thus, Pycnogenol in concns. as low as 0.025% could counteract the growth of all the strains investigated in our study. These results conform with clin. oral health care studies describing the prevention of plaque formation and the clearance of candidiasis by Pycnogenol.

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1014744 CAPLUS

DOCUMENT NUMBER: 144:259176

TITLE: Assessment of exposure of sewage plant workers to

harmful agents in the workplace

Cyprowski, Marcin; Szarapinska-Kwaszewska, Jadwiga; AUTHOR(S):

Dudkiewicz, Bozena; Krajewski, Jan A.;

Szadkowska-Stanczyk, Irena

CORPORATE SOURCE: Zakl. Srodowiskowych Zagrozen Zdrowia, Inst. Med.

Pracy im. J. Nofera, Lodz, 90-950, Pol.

Medycyna Pracy (2005), 56(3), 213-222 CODEN: MEPAAX; ISSN: 0465-5893 SOURCE:

PUBLISHER: Instytut Medycyny Pracy Journal

DOCUMENT TYPE: LANGUAGE: Polish

Background: The purpose of the study was to evaluate exposure to biol. and chemical agents in a sewage treatment plant. Materials and Methods: Sampling was carried out in the summer and wintertime at the morning workshift. Ninety-nine sewage workers taking part in the study were divided into four occupational subgroups: mech. treatment, biol. treatment, sewage sludge treatment, and operation control workers. Exposure to: H2S, SO2, Pb, Cd, Cr3+, Cr6+, endotoxins, $(1\rightarrow 3)-\beta-D$ glucans, and microorganisms was evaluated with special identification of Gram-neg. rods. Results: The concns. of dust containing heavy metals and concns. of gases from all stations did not exceed MAC values. Concns. of endotoxins ranged from 0.08 to 223 ng/m3, and glucans from 0.00 to 163 ng/m3. The highest concns. were found among sewage sludge treatment workers, in the summertime (geometric mean value = 37 ng/m3). In the winter, concns. were almost ten times lower. Over sixty percent of all results exceeded the proposed reference value for airborne endotoxins (10 ng/m3). Concns. of airborne bacteria in the sewage plant were at low level (102 cfu/m3), except the sludge lagoon and sludge concentration building, where the results exceeded the proposed reference value for mesophilic bacteria (105 cfu/m3) · "Environmental" bacteria (Pseudomonas, Burkholderia, Shewanella) predominated in the samples. There were also found enterobacteria genus (Enterococcus, family Enterobacteriaceae) good indicators of hygienic cleanliness of the air. Conclusions: The study proved that the exposure varied and depended on the stage of sewage treatment. The sewage sludge treatment process was characterized by the highest emission of bioaerosols. All microorganisms found in the sewage plant belong to the second occupational risk group, under the ordinance of the Ministry of Health.

ANSWER 8 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:564598 CAPLUS

DOCUMENT NUMBER: 143:77319

TITLE: Continuous multi-microencapsulation process for

improving the stability and storage life of

biologically active ingredients in foods, cosmetics

and drugs

INVENTOR(S): Casana Giner, Victor; Gimeno Sierra, Miquel; Gimeno

Sierra, Barbara; Moser, Martha

PATENT ASSIGNEE(S): GAT Formulation G.m.b.H., Austria

PCT Int. Appl., 72 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE			
WO 2005058	 476	A1	20050630	WO 2004-ES562	20041217			
				BA, BB, BG, BR, BW,				
		•		DM, DZ, EC, EE, EG,				
				IN, IS, JP, KE, KG,				
LK	, LR, LS,	LT, L	J, LV, MA,	MD, MG, MK, MN, MW,	MX, MZ, NA, NI,			
NO	, NZ, OM,	PG, PI	H, PL, PT,	RO, RU, SC, SD, SE,	SG, SK, SL, SY,			
TJ	, TM, TN,	TR, T	r, TZ, UA,	UG, US, UZ, VC, VN,	YU, ZA, ZM, ZW			
RW: BW	, GH, GM,	KE, L	S, MW, MZ,	NA, SD, SL, SZ, TZ,	UG, ZM, ZW, AM,			
AZ	, BY, KG,	KZ, M	D, RU, TJ,	TM, AT, BE, BG, CH,	CY, CZ, DE, DK,			
EE	, ES, FI,	FR, G	B, GR, HU,	IE, IS, IT, LT, LU,	MC, NL, PL, PT,			
RO	, SE, SI,	SK, T	R, BF, BJ,	CF, CG, CI, CM, GA,	GN, GQ, GW, ML,			
MR	, NE, SN,	-						
ES 2235642		A 1		ES 2003-2998	20031218			
ES 2235642								
AU 2004298				AU 2004-298792				
CA 2550615				CA 2004-2550615				
EP 1702675		A1	20060920	EP 2004-805105	20041217			
R: AT	, BE, CH,	DE, D	K, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,			
		FI, R		BG, CZ, EE, HU, PL,				
CN 1917946		A		CN 2004-80041872				
				BR 2004-17767				
		A1	20070405	US 2006-596556				
PRIORITY APPLN.	INFO.:			ES 2003-2998				
				WO 2004-ES562	W 20041217			

AB Microcapsules are obtained in a continuous water-in-oil-in-water microencapsulation process through in situ and interfacial polymerization of the

emulsion. A formulation comprises a continuous water phase having a dispersion of microcapsules which contain oil drops and in the inside of each oil phase drop (containing optionally oil-soluble materials) there is a dispersion of water, or aqueous extract or water-dispersible material or water-soluble material. The oil drops are encapsulated with a polymerizable material of natural origin. Such microcapsules are appropriate for spray-drying, to be used as dry powder, lyophilized, self-emulsifiable powder, gel, cream, and any liquid form. The active compds. included in the microcapsules are beneficial to health and other biol. purposes. Such formulations are appropriate for incorporation in any class of food, especially for the production of nutraceuticals, as well as cosmetic products (such as rejuvenescence creams, anti-wrinkle creams, gels, bath and shower consumable products and sprays). The prepns. are adequate to stabilize compds. added to food, media for cultivating microbes and nutraceuticals, especially those which are easily degradable or oxidizable.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:533226 CAPLUS

DOCUMENT NUMBER: 143:271848

TITLE: Manufacturing process for water improvement agent

containing live bacterials and activated medium

INVENTOR(S): Huang, Zhongping

PATENT ASSIGNEE(S): Zhongshun Biotechnology Co., Ltd., Wuxi, Peop. Rep.

China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp.

given

CODEN: CNXXEV

DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1528681	Α	20040915	CN 2003-158365	20030928
PRIORITY APPLN. INFO.:			CN 2003-158365	20030928
	_	_		_

The title agent is used to improve the water quality and is manufactured through the following steps: (1) add culture medium containing C source and N source into a fermentaion container, add water, (2) sterilize the mixture at high temperature, cool, (3) incubate live bacterial and ferment, (4) add carrier, dry the mixture in a drying machine to get solid microorganism semi-finished product, (5) mix the semi-finished product with the activated culture medium. This improvement agent converts C-containing organic substances into carbon dioxide and water. This improvement agent also converts N-containing organic substances into amine, nitrate and nitrite, and finally ammonia, which will escape from the water. The live bacterial actived before using will propagated quickly and the water quality are imporved quickly. This simple process provides a high efficiency low cost water improvement agent.

L2 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:429190 CAPLUS

DOCUMENT NUMBER: 142:480754

TITLE: Antigen modified cancer cell vaccines for cancer

therapy

INVENTOR(S): Lawman, Michael J. P.; Lawman, Patricia D.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S.

Ser. No. 652,578. CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005106130	A1	20050519	US 2004-964471	20041013
WO 9936433	A2	19990722	WO 1999-US787	19990114
WO 9936433	A3	19990923		
W: CA, JP, US RW: AT. BE. CH.	CY. DE	. DK. ES. FI	, FR, GB, GR, IE, IT	LU MC NI.
PT, SE	01, 22	, 210, 25, 11	, 11, 62, 61, 12, 11	, 20, 110, 112,
US 2002141981	A1	20021003	US 2001-950374	20010910
US 2004142464	A1	20040722	US 2003-652578	20030829
US 7094603	B2	20060822		
PRIORITY APPLN. INFO.:	•		US 1998-71497P	P 19980114
•			WO 1999-US787	A1 19990114
			US 1999-394226	B1 19990913
			US 2001-950374	A1 20010910
			US 2003-652578	A2 20030829

AB The disclosed invention presents methods for treating cancers, particularly tumorigenic types. Cancer cells are modified to express highly immunogenic antigens so that the cells will generate a defensive response in a mammal that exhibits the cancer or is predisposed to cancer and prevent or ameliorate proliferation of cancer cells. The novel cancer cell vaccines are expected to be effective against a wide range of tumors and leukemias. The examples relate to transformation of murine neuroblastoma cell line, Neuro-2a, with gene for streptococcal Emm55 polypeptide or variants thereof. The modified neuroblastoma cells can further comprise a nucleic acid segment encoding an MHC protein and optionally a nucleic acid encoding a cytokine. In a mouse model, vaccination with the Neuro-2a/Emm55 delayed or totally prevented tumor development, and in addition, sera from inoculated mice produced antibodies specific for Neuro-2a antigens.

L2 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:754442 CAPLUS

DOCUMENT NUMBER: 141:242145

TITLE: β- Glucan-containing culture media for

relieving constipation, potentiating immune systems

and moisturizing the skin

INVENTOR(S): Moriya, Naoyuki, Moriya, Yukiko; Suzuki, Kenji

PATENT ASSIGNEE(S): Aureo Co., Ltd., Japan SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	NO.			KIND DATE			APPLICATION NO.											
WO	2004	 0781:	88												2	0040	 304		
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,		
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
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		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	NO		
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		MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,		
		GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG									
JP	JP 2004269407						2004	0930	JP 2003-61379						2	0030	307		
JP	2004	2694	80		Α	20040930 JP 2003-61382							2	0030	307				
									JP 2004-28965										
CN	1700	926			Α		2005	1123		CN 2	004-	8000	1038		. 2	0040	304		
EP	1602	377			A 1		2005	1207		EP 2	004-	7172	35		2	0040	304		
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,		
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK		
US	US 2005272694						2005	1208		US 2	005-	5314	63		2	0050	415		
PRIORIT	RIORITY APPLN. INFO.:									JP 2						0030	307		
										JP 2	003-	6138	2		A 2	0030	307		
	•									JP 2			-			0040			
										WO 2	004-	JP27	80	,	W 2	0040	304		

AB It is intended to provide a composition containing $\beta\text{-}$ glucan in which the physiol. active effects of $\beta\text{-}1,3\text{-}1,6\text{-}$ glucan contained in the culture medium of a bacterium belonging to the genus Aureobasidium sp. are further enhanced, and a constipation-relieving drug, an immunopotentiator and a skin moistening agent using the composition A composition

containing β - glucan, which contains a culture medium containing β -1,3-1,6- glucan obtained by culturing a bacterium belonging to the Aureobasidium sp. together with lactic acid bacterium cells, is obtained. This composition containing β - glucan is employed as the active ingredient of a constipation-relieving drug, an immunopotentiator and a skin moistening agent. As the above-described bacterium belonging to the genus Aureobasidium sp., Aureobasidium pullulans M-1 (FERM BP-08615) is preferable. As the above-described lactic acid bacterium, Enterococcus faecalis is preferable. It is still preferable that this lactic acid bacterium has been killed by heating. The content of the culture medium in solid matters preferably ranges from 1 to 80% by mass in terms of β -1,3-1,6- glucan, while the content of the lactic acid bacterium cells preferably ranges from 4 to 95% by mass.

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:514189 CAPLUS DOCUMENT NUMBER: 141:187425

TITLE: Identification and characterization of the novel LysM

domain-containing surface protein Sep from

Lactobacillus fermentum BR11 and its use as a peptide

fusion partner in Lactobacillus and Lactococcus Turner, Mark S.; Hafner, Louise M.; Walsh, Terry;

Giffard, Philip M.

CORPORATE SOURCE: Infectious Diseases Program, School of Life Sciences,

Faculty of Science, Queensland University of

Technology, Brisbane, Australia

SOURCE: Applied and Environmental Microbiology (2004), 70(6),

3673-3680

CODEN: AEMIDF; ISSN: 0099-2240
American Society for Microbiology

DOCUMENT TYPE: Journal LANGUAGE: English

AUTHOR (S):

PUBLISHER:

Examination of supernatant fractions from broth cultures of L. fermentum BR11 revealed the presence of a number of proteins, including a 27-kDa protein termed Sep. The amino-terminal sequence of Sep was determined, and the gene encoding it was cloned and sequenced. Sep is a 205-amino-acid protein and contains a 30-amino-acid secretion signal and has overall homol. (39-92% identity) with similarly sized proteins of Lactobacillus reuteri, Enterococcus faecium, Streptococcus pneumoniae, Streptococcus agalactiae, and Lactobacillus plantarum. The carboxy-terminal 81 amino acids of Sep also have strong homol. (86% identity) to the carboxy termini of the aggregation-promoting factor (APF) surface proteins of Lactobacillus gasseri and Lactobacillus johnsonii. The mature amino terminus of Sep contains a putative peptidoglycan-binding LysM domain, thereby making it distinct from APF proteins. We have identified a common motif within LysM domains that is shared with carbohydrate binding YG motifs which are found in streptococcal glucan-binding proteins . and glucosyltransferases. Sep was investigated as a heterologous peptide expression vector in L. fermentum, Lactobacillus rhamnosus GG and Lactococcus lactis MG1363. Modified Sep containing an amino-terminal 6-histidine epitope was found associated with the cells but was largely present in the supernatant in the L. fermentum, L. rhamnosus, and L. lactis hosts. Sep as well as the previously described surface protein BspA were used to express and secrete in L. fermentum or L. rhamnosus a fragment of human E-cadherin, which contains the receptor region for Listeria monocytogenes. This study demonstrates that Sep has potential for heterologous protein expression and export in lactic acid bacteria.

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:971270 CAPLUS

DOCUMENT NUMBER: 140:19788

TITLE: Method for drying biomaterials

INVENTOR(S):
Johal, Sarjit

PATENT ASSIGNEE(S): Grain Processing Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003228296	A1	20031211	US 2003-371730	20030221
US 2006029577	A1	20060209	US 2005-235032	20050926
PRIORITY APPLN. INFO.:			US 2002-358633P	P:20020221
			US 2003-371730	A3 20030221

AB The present invention provides a means to concentrate, dry and formulate biomaterials such as polysaccharides, gums and related biopolymers, and microorganisms such as cells, spores, and the like from dilute solns. using

spent germ and other oil bearing residues. In addition, the spent germ can serve as a carrier for such biomaterials. The sorbed materials are useful in animal feeds. Scleroglucan was dried by using spent corn germ with excellent hydration/viscosity.

L2ANSWER 14 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:931205 CAPLUS

DOCUMENT NUMBER: 139:386260

TITLE: Glucan-based vaccines

INVENTOR(S): Polonelli, Luciano; Cassone, Antonio

PATENT ASSIGNEE(S): Italy

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	rent :				KIND DATE			APPLICATION NO.						DATE				
	2003	0970	91		A2				1	WO 2	003-	IB24	60		2	20030	515	
***	W:								BA.	BB.	BG.	BR.	BY.	B7.	CA	CH,	CN.	
																GE,		
					-				-	-	•	-				LK,		
			-	-	-						•					NZ,	•	
		•	•	•	•		•	•		•	•	•		•		TR,	•	
										-	ZM,		,	~~,			,	
	RW:				•	•				•	•		ZM.	ZW.	AM	AZ,	BY.	
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	`															sĸ,		
																TD,		
CA	2485		-													•		
AU	2003	2411	04		A1		2003	1202		AU 2	003-	2411	04		:	20030	515	
EP	1506	009			A2		2005	0216		EP 2	003-	7304	24			20030	515	
																MC,		
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU	SK		
JP	2005	5352	98		T		2005	1124		JP 2	004-	5050	87		:	20030	515	
US	2005	2080	79		A1				2 US 2005-514483						2	20050	526	
US	2007	1410	88		A1		2007	0621	1	US 2	007-	7012	50			20070	201	
PRIORITY	RITY APPLN. INFO.:					GB 2002-11118						A 2	20020	515				
							1	WO 2	003-	IB24	60		W :	20030	515			
									US 2005-514483						A3 20050526			

AB Anti-glucan antibodies have been found to be protective against systemic fungal infection with C. albicans, but the protective efficacy can be inhibited by blocking antibodies. The invention provides an immunogenic composition comprising a glucan and a pharmaceutically acceptable carrier, characterized in that, when administered to a mammalian recipient, the composition elicits protective anti-glucan antibodies but does not elicit antibodies which inhibit the protective efficacy of the anti-glucan antibodies. The glucan may be presented on the surface of a protease-treated microbial cell or may be presented as a protein-glucan conjugate. The glucan may be substituted by a glucan mimotope, a peptidomimetic of a glucan mimotope, or nucleic acid encoding a mimotope. Anti-glucan-antibodies show broad spectrum microbicidal activity. β- glucans are preferred, particularly those containing one or more β -1,6 linkages.

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ANSWER 15 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN
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2003:796878 CAPLUS ACCESSION NUMBER:

. 139:306530 DOCUMENT NUMBER:

Flt3-ligand for enhancing immune response of vaccine TITLE: against cancer, allergy and infection

INVENTOR (S): Mckenna, Hilary J.; Liebowitz, David N.; Maliszewski, Charles R.

PATENT ASSIGNEE(S):

Immunex Corporation, USA PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

SOURCE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	ENT 1	NO.			KIND DATE				APPLICATION NO.						DATE			
		2003						2003: 2004:		1	WO 2	003-1	JS97	73		2	0030	326	
		₩:	AE, CO, GM, LS, PH, TZ, GH,	AG, CR, HR, LT, PL, UA, GM,	AL, CU, HU, LU, PT, UG, KE,	AM, CZ, ID, LV, RO, US, LS,	AT, DE, IL, MA, RU, UZ, MW,	AU, DK, IN, MD, SC, VC, MZ,	AZ, DM, IS, MG, SD, VN, SD,	DZ, JP, MK, SE, YU, SL,	EC, KE, MN, SG, ZA, SZ,	EE, KG, MW, SK, ZM, TZ,	ES, KP, MX, SL, ZW UG,	FI, KR, MZ, TJ,	GB, KZ, NI, TM,	GD, LC, NO, TN,	GE, LK, NZ, TR,	GH, LR, OM, TT,	
	G2	0.4.0.0	FI, BF,	FR, BJ,	GB, CF,	GR, CG,	HU, CI,	IE, CM,	AT, IT, GA,	LU, GN,	MC, GQ,	NL, GW,	PT, ML,	RO, MR,	SE, NE,	SI, SN,	SK, TD,	TR, TG	
		2480							1009										
		2003				A1			1013					-					
		2004																	
	EΡ	1487							1222										
		R:	-	•		•			FR, MK.	•	•	•				•	•	PT,	
	ιΤΡ	2005					FI, RO, MK, (20050922				•		•		•	•		326	
										5 MX 2004-PA9394									
PRIO	RIORITY APPLN. INFO.:				••	20030123									P 20	0020	326		
					_		_			WO 2003-US9773							0030		

AB The present invention relates to methods of using Flt3-ligand (Flt3-L) in immunization protocols to enhance immune responses against vaccine antigens. Embodiments include administering Flt3-ligand prior to immunizing a subject with a vaccine, wherein the vaccine comprises at least one antigen formulated in one or more adjuvants. Methods of treating and preventing cancer, allergy and infection using Flt3-ligand immunization protocols are also provided. Methods of using Flt3-ligand immunization protocols for in vivo evaluation of antigens and adjuvants are also provided.

L2 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2003:696036 CAPLUS

DOCUMENT NUMBER:

139:229690

TITLE:

Micronutrient combination product with pro- and

prebiotics.

INVENTOR(S):

Glagau, Kristian; Schmidt, Michael

PATENT ASSIGNEE(S):

Orthomol Pharmazeutische Vertriebs GmbH, Germany

SOURCE:

Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent German

LANGUAGE:

Germa

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10206995	A1	20030904	DE 2002-10206995	20020219
PRIORITY APPLN. INFO.:			DE 2002-10206995	20020219

AB A probiotics-containing micronutrient combination product comprises at least two product portions with various composition, whereby the first portion has probiotics as active ingredients and the second portion has a prebiotic

with trace elements, vitamins and secondary plant materials.

L2 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:472991 CAPLUS

DOCUMENT NUMBER: 139:35076

TITLE: Glycoconjugate vaccines for use in immune-compromised

populations

INVENTOR(S): Fattom, Ali I.; Naso, Robert B.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.							APPLICATION NO.											
		2003																	
	CA	2460	749			A 1		2003	0731		CA 2	002-	2460	749		2	0020	919	
		2003																	
	WO	2003	0615	58		A3		2003	0912										
	WO	2003	0615	58		A9		2004	0610										
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	ΙL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
			UA,	UG,	US,	UZ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW							
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	
			KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	
												ΝE,							
	ΕP	1427	442			A2		2004	0616		EP 2	002-	8065	91		2	0020	919	
		R:								•		IT,							
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	.CZ,	,EE,	, SK .			z - • • •
																			20011011
																			2000
		1638																	
	IN	2004	MNOO	173		Α		2005	0429		IN 2	004-1	MN17	3		2	0040	311	
	ZA	2004	0021	85		Α		2005	0425		ZA 2	004-	2185			2	0040	318	
	MX	2004	PA02	624		Α		2005	0217								0040	319	
	US	2006	1885	18		A1		2006	0824		US 2	006-	3389	00		2	0060	125	
PRIOR	ITI	APP	LN.	INFO	.:							001-							
											WO 2	002-	US29	601	,	W 2	0020	919	
		, ,		-													-		_

AB Staphylococcal and Enterrococcal glycoconjugate vaccines are disclosed for use in preventing or treating bacterial infection in an immune-compromised individual. Such vaccines contain an immunocarrier and a conjugate of a polysaccharide or glycopeptide surface antigen from a clin.-significant bacterial strain. The vaccines can be used for active protection in immune-compromised individuals who are to be subjected to conditions that place them at immediate risk of developing a bacterial infection, as would be the case in the context of a catheterization or a surgical procedure.

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L2 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN
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ACCESSION NUMBER: 2003:460563 CAPLUS

DOCUMENT NUMBER: 139:41813

TITLE: Prophylactic and therapeutic agents and

protease-formation inhibitors for treatment of periodontal diseases, and bad breath- and tooth

decay-preventing agents

INVENTOR(S): Kawada, Masahiro; Ono, Hiroshi; Matsumura, Eiko; Imai,

Tatsuya

PATENT ASSIGNEE(S): Biofermin Pharmaceutical Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE JP 2003171292 Α 20030617 JP 2001-365278 20011129 PRIORITY APPLN. INFO.: JP 2001-365278

Title agents contain (A) Bifidobacterium, lactic acid bacteria, or butyric acid bacteria and (B) sugars utilized by the bacteria. Thus, a mixture of Streptococcus faecalis 129BI03B, Lactobacillus acidophilus KS13, B. bifidum G9-1, and periodontal disease-causing Porphyromonas gingivalis was inoculated to glucose-containing GAM medium and anaerobically incubated to show strong antibacterial activity against the causative bacteria.

ANSWER 19 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2003:396635 CAPLUS

DOCUMENT NUMBER:

138:398641

TITLE:

Genes associated with antibiotic resistance in

biofilms and their use in development of antibiotics

against biofilms

INVENTOR(S):

O'Toole, George A.; Mah, Thien-Fah

PATENT ASSIGNEE(S):

Dartmouth College, USA

SOURCE:

PCT Int. Appl., 102 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						D	DATE		i	APPI	LICAT	ION	NO.		D	ATE	
	WO	2003	0414	B3		A2	-	2003	0522	Ī	WO 2	2002-T	 US29	565		2	0020	 918
		W:	ΑE,	AG,	ΑĻ,	AM,	AT,	AU,	AZ,	BA,	BB,	, BG,	BR;	BY,	, BZ ,-	CA,	, CH,	, CN , ;
		<i>i.</i>										, EE,						
	•		GM,	HR,	HU,	ID,	ΊL,	IN,	IS,	JP,	KE,	, KG,	KP,	KR,	KZ,	,LC,	LK,	,LR,
												, MW,						
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	, SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZM,	zw							
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	, TZ,	UG;	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	KZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	, CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	, PT,	SE,	SK,	TR,	BF,	ВJ,	CF,
			CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	, NE,	SN,	TD,	TG			
		20023										2002-3					0020	918
	US	2003	16603	30		A1		2003	0904	1	US 2	2002-2	2463	30		2	0020	918
	US	71092	294			B2		2006	0919									
PRIC	RIT	APP	LN.	INFO	. :					1	US 2	2001-:	3232	41P]	2	0010	918

WO 2002-US29565 W 20020918 AB Genes encoding proteins that are shown to play a role, direct or indirect, in microbial resistance of an organism in a biofilm are identified for use in development of antibiotics effective against biofilms. Methods of identifying a compound that modulates antibiotic resistance in a biofilm, and methods of identifying genes that encode proteins that play a role, direct or indirect, in biofilm resistance. Biofilms of Pseudomonas aeruginosa showing a 50-fold greater resistance to tobramycin than planktonic cultures were established. Genes directly affecting biofilm tobramycin resistance were identified by transposon mutagenesis. Candidates were screened for normal growth phenotypes and antibiotic resistance in planktonic cultures. One of the genes was similar to the ndvB gene of Bradyrhizobium japonicum and could complement mutations in the gene in Sinorhizobium meliloti. The cyclic glucans appear to play a role in resistance to tobramycin by direct interaction. second gene similar to a component of a multidrug efflux pump was

identified.

L2 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:112902 CAPLUS

DOCUMENT NUMBER: 138:131082

TITLE: β - Glucans and lactobacillus products as

antibacterial agents and health foods

INVENTOR(S): Takekawa, Wakoto; Suga, Tatsuhiko

PATENT ASSIGNEE(S): Konbi K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003040785	Α	20030213	JP 2002-145675	20020521
SG 93936	A1	20030121	SG 2002-2671	20020503
TW 230611	В	20050411	TW 2002-91110088	20020515
CN 1386510	Α	20021225	CN 2002-121607	20020521
TORITY APPIN. INFO.:			JP 2001-150643	A 20010521

AB β - Glucans from fruiting body of fungus, including Agaricus blazei Murill, and processed products from bacterium, yeast, mushrooms, seaweeds, lichens, lactobacillus, and/or Enterococcus faecalis are claimed as antibacterial agents and health foods with immunostimulant actions.

L2 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:964504 CAPLUS

DOCUMENT NUMBER: 138:34109

TITLE: Use of phagocytes for detection of infectious bacteria

by in situ hybridization, drug screening, and other

clinical applications

INVENTOR(S):
Ohno, Tsuneya; Matsuhisa, Akio; Keshi, Hiroyuki; Abe,

Kanako; Sugimoto, Norihiko; Ueyama, Hiroshi; Eda, Soji; Uehara, Hirotsugu; Iwami, Takahisa; Yamamoto,

Seiji; Araki, Hiromasa

PATENT ASSIGNEE(S): Fuso Pharmaceutical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 155 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO. KI						DATE		•	APPL	ICAT.		DATE					
						-												
WO	2002	1010	37		A1		2002	1219	,	WO 2	002-	JP51	06		20	0020	527	
	W :	ΑE,	AG,	AL,	AM,	AΤ,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
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		GM,	HR,	HU,	ID,	ΙL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
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		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ΜL,	MR,	, NE,	SN,	TD,	TG	
CA	2447	775			A1.	•	2002	1219	1	CA 2	002-3	2447	775		2	0020	527	
ΑU	2002	3088	92 :		.A1		2002	1223		AU 2	002-	3088	92		21	00,20	527	
ΕP	1403	369			.A1		2004	0331		EP 2	0.02-	7789	10		2	00,20	527	
•	R:	AT,	BE;	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	•	IE,	SI,	LT,	LV.,	FI,	RO.	MK,	CY,	AL,	TR		٠.			• •		
EΡ	1795	594		•	A2		2007	0613		EP 2	007-	4647			. 2	0020	527	

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AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC,
            NL, PT, SE, TR
    US 2007059687
                         A1
                               20070315
                                           US 2004~479027
                                                                 20040910
PRIORITY APPLN. INFO.:
                                           JP 2001-165954
                                                              A 20010531
                                           EP 2002-778910
                                                              A3 20020527
                                           WO 2002-JP5106
                                                              W 20020527
    Phagocytes ingesting foreign microorganism, preparation, and methods and kits
     for their uses, are disclosed. In vitro evaluation of phagocytosis
    function, immune function, efficiency of phagocyte differentiation,
    screening of phagocytosis function modulators, are claimed. Immune
    response of patients undergoing radiotherapy or chemotherapy may be
    evaluated, by examining the phagocytosis function of white blood cells.
    authors report herein the detection of intracellular infectious bacteria
    in phagocyte-smears obtained from blood samples by in situ hybridization.
    A microorganism causative of an infection is quickly and highly
    sensitively detected and/or identified by obtaining phagocytes from a
    clin. specimen containing phagocytes, immobilizing the obtained phagocytes,
    treating the phagocytes so as to enhance the permeability of the phagocyte
    membrane and expose DNA of the microorganism causative of the infection,
    and then using DNA probes for in situ hybridization for detection. Use of
    surfactants, anionic surfactants, in particular, like sodium
    dodecylsulfate (SDS), is claimed. Phagocytes were immobilized on
    3-aminopropyl triethoxysilane (APS)-coated slide, and treated with
    N-acetyl muramidase, lysozyme, lysostaphin, zymolase (β1,3-
    glucan lanimaripentaohydrolase, lanimaripentaose), phenylmethyl
    sulfonylfluoride (PMSF)-containing DMSO (DMSO).
                              THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                        3
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 22 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN
L2
                        2002:946505 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        138:34094
TITLE:
                        Detection of infectious bacteria in phagocyte-smears
                        from blood by in situ hybridization
INVENTOR(S):
                        Ohno, Tsuneya; Matsuhisa, Akio
                        Fuso Pharmaceutical Industries, Ltd., Japan
PATENT ASSIGNEE(S):
                        PCT Int Appl., 129 pp.
SOURCE:
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO.
                        KIND
                               DATE
                                         APPLICATION NO.
                                                                 DATE
                                          ______
                               ------
                               20021212 WO 2002-JP5107
    WO 2002099133
                        A1
                                                                 20020527
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
            UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
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CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                                  20020527
    CA 2447750
                         Α1
                               20021212
                                         CA 2002-2447750
    AU 2002256921
                         A1
                               20021216
                                           AU 2002-256921
                                                                  20020527
                                           EP 2002-726495
    EP 1403381
                         A1
                               20040331
                                                                  20020527
                         B1
                               20070711
    EP 1403381
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
    JP 3934605 B2 20070620 JP 2003-502242 20020527 US 2006234219 A1 20061019 US 2004-479185 20040621
                                                            20020527
                        PRIORITY APPLN. INFO.:
                                           JP 2001-165929 A 20010531
                                    WO 2002-JP5107
                                                            W 20020527
```

The authors report herein the detection of intracellular infectious AB bacteria in phagocyte-smears obtained from blood samples by in situ hybridization. A microorganism causative of an infection is quickly and highly sensitively detected and/or identified by obtaining phagocytes from a clin. specimen containing phagocytes originating in a living body, immobilizing the obtained phagocytes, treating the phagocytes so as to enhance the permeability of the phagocyte membrane and expose DNA of the microorganism causative of the infection, and then using DNA probes for in situ hybridization for detection. Use of surfactants, anionic surfactants, in particular, like sodium dodecylsulfate (SDS), is claimed. Phagocytes were immobilized on 3-aminopropyl triethoxysilane (APS)-coated slide, and treated with N-acetyl muramidase, lysozyme, lysostaphin, zymolase (β1,3- glucan lanimaripentaohydrolase, lanimaripentaose), phenylmethyl sulfonylfluoride (PMSF)-containing DMSO (DMSO).

REFERENCE COUNT:

22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2002:676289 CAPLUS

DOCUMENT NUMBER:

137:211942

TITLE:

Drug design against drug resistant mutants using directed evolution and target protein conformation

changes

INVENTOR(S):

Stevens, Raymond C.; Orencia, Maria C.; Yoon, Jun S.;

Hanson, Michael A.

PATENT ASSIGNEE(S):

The Scripps Research Institute, USA

SOURCE:

PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND DATE			,	APPL	ICAT		DATE						
	WO 2002068933 WO 2002068933					A3 20021121				WO 2	002-1	US62	38		20020227			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN;	
	•	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DΖ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	OM,	PH,	
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZM,	zw								
	RW:	GH,	GM,	KE,	LS,	MW,	MZ;	SD,	SL,	SZ,	TZ,	UG,	:ZM,	ZW,	ΑT,	BE,	CH,	
*		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	·IT,	LU,	MC,	NL,	PT,	SE,	TR,	
	•	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	,NE,	,SN,	,TD,	TG	
	AU 2002	2540	77		A1		2002	0912		AU 2	002-	2540	77		20	0020	227	
PRIORITY APPLN. INFO.:							•	US 2	001-	2722	48P		P 20	00102	228			
								1	WO 2	002-1	US62	38	1	W 2	0020	227		

AB The present invention provides methods for identifying new drugs and potential inhibitors and modulators of drug-resistant variants of a target protein of a drug of interest. A drug-resistant variant according to the invention has at least one mutation resulting in a structural change, an activity change or a stability change as compared to the target protein. Such variants would include natural variants such as those encountered in the clinic, but preferably variants are selected by directed evolution methodol. The present invention relates to methods for designing new drugs useful against drug-resistant bacterial cells, viruses, mammalian cells and the like. The method involves identifying a target protein of the drug, selecting for drug-resistant variants that have an altered target protein (variant protein) by directed evolution, determining the three dimensional structure of the target and variant proteins and designing a new drug that can be effective against at least one drug-resistant variant. The present invention can be used to predict future mutations

that lead to drug resistance and the type of drugs that are effective to combat such resistance.

L2 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:445879 CAPLUS

DOCUMENT NUMBER: 137:62602

AUTHOR (S):

TITLE: In vitro fermentation of cereal dietary fibre

carbohydrates by probiotic and intestinal bacteria Crittenden, Ross; Karppinen, Sirpa; Ojanen, Suvi; Tenkanen, Maija; Fagerstrom, Richard; Matto, Jaana; Saarela, Maria; Mattila-Sandholm, Tiina; Poutanen,

Kaisa

CORPORATE SOURCE: VTT Biotechnology, FIN-02044, Finland

SOURCE: Journal of the Science of Food and Agriculture (2002),

82(8), 781-789

CODEN: JSFAAE; ISSN: 0022-5142

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB A range of probiotic and other intestinal bacteria were examined for their

ability to ferment the dietary fiber carbohydrates β - glucan , xylan, xylo-oligosaccharides (XOS) and arabinoxylan. β - Glucan was fermented by Bacteroides spp and Clostridium

Glucan was fermented by Bacteroides spp and Clostridium beijerinckii but was not fermented by lactobacilli, bifidobacteria, enterococci or Escherichia coli. Unsubstituted xylan was not fermented by any of the probiotic bacteria examined However, many Bifidobacterium species and Lactobacillus brevis were able to grow to high yields using XOS. XOS were also efficiently fermented by some Bacteroides isolates but not by E. coli, enterococci, Clostridium difficile, Clostridium perfringens or by the majority of intestinal Lactobacillus species examined Bifidobacterium longum strains were able to grow well using arabinoxylan as the sole carbon source. These organisms hydrolyzed and fermented the arabinosyl residues from arabinoxylan but did not substantially utilize the xylan backbone of the polysaccharide. Arabinoxylan was not fermented by lactobacilli, enterococci, E coli, C perfringens or C difficile and has potential to be an applicable carbohydrate to complement probiotic Bif longum strains in symbiotic combinations.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:10211 CAPLUS

DOCUMENT NUMBER: 136:69089

TITLE: Confectionery product containing active ingredients

INVENTOR(S): Bell, David Alan; Pickford, Emma

PATENT ASSIGNEE(S): Societe des Produits Nestle S.A., Switz.

SOURCE: PCT Int. Appl., 16 pp...

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Facence English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE		
WO 2002000033	A1 .20020103	WO 2001-EP6363	2001.0606		
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, BZ	, CA, CH, CN,		
CO, CR, CU,	CZ, DE, DK, DM,	DZ, EC, EE, ES, FI, GB	GD, GE, GH,		
GM, HR, HU,	ID, IL, IN, IS,	JP, KE, KG, KP, KR, KZ	LC, LK, LR,		
: : LS, LT, LU,	LV, MA, MD, MG,	MK, MN, MW, MX, MZ, NO	NZ, PL, PT,		
RO, RU, SD,	SE, SG, SI, SK,	SL, TJ, TM, TR, TT, TZ	, UA, UG, US,		
UZ, VN, YU,	ZA, ZW				
RW: GH, GM, KE,	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZW, AT	, BE, CH, CY,		
DE, DK, ES,	FI, FR, GB, GR,	IE, IT, LU, MC, NL, PT	SE, TR, BF,		
		GW, ML, MR, NE, SN, TD			

CA	2415836			A1	2002	0103	CA	2001-	2415	336		20	0010606
EP	1299005	•		A1	2003	0409	EP	2001-	96270	9		20	0010606
	R: AT,	BE,	CH, I	DΕ,	DK, ES,	FR,	GB, G	R, IT,	LI,	LU,	NL,	SE,	MC, PT,
	IE,	SI,	LT, I	Ĺ۷,	FI, RO,	MK,	CY, A	L, TR					
SI	21017			Α	2003	0430	SI	2001-	2003	5		20	0010606
BR	20010120	94		Α	2003	0506	BR	2001-	12094	1		20	0010606
HU	20030129	2		A2	2003	0828	HU	2003-	1292			20	0010606
JP	20045000	03		T	2004	0108	JP	2002-	50482	27		20	0010606
NZ	523806			Α	2004	1029	· NZ	2001-	52380	06		20	0010606
TR	20020273	7		T2	2004	1221	TR	2002-	2737			20	0010606
RU	2277792			C2	2006	0620	RU	2003-	10263	30		20	0010606
NO	20020060	37		Α	2003	0206	NO	2002-	6037			20	0021216
IN	2002CN02	104		Α	2005	0225	IN	2002-	CN21	04		20	0021218
US	20031385	20		A1	2003	0724	US	2002-	3289	13		20	0021220
MX	2003PA00	007		Α	2003	0527	MX	2003-	PA7			20	0030107
ZA	20030007	91		Α	2004	0219	ZA	2003-	791			20	0030129
UA	20062252	67		A1	2006	1102	AU	2006-	2252	57		20	0061006
PRIORIT	Y APPLN.	INFO.	:				GB	2000-	16173	3	Α	20	0000630
							WO	2001-	EP63	53	W	20	0010606
			-		,	-							

AB A confectionery product, e.g. chocolate, contains one or more active ingredients characterized in that the active ingredients are incorporated in a plurality of carrier bodies dispersed within the body of the confectionery product.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:799022 CAPLUS

DOCUMENT NUMBER: 136:34585

TITLE: In vitro antimicrobial activities of bakuchiol against

oral microorganisms

AUTHOR(S): Katsura, Harumi; Tsukiyama, Ryo-Ichi; Suzuki, Akiko;

Kobayashi, Makio

CORPORATE SOURCE: Research Laboratory of Higashimaru Shoyu Co. Ltd.,

Tatsuno, 679-4193, Japan

SOURCE: Antimicrobial Agents and Chemotherapy (2001), 45(11)

3009-3013

CODEN: AMACCQ; ISSN: 0066-4804 American Society for Microbiology

PUBLISHER: American DOCUMENT TYPE: Journal LANGUAGE: English

AB Bakuchiol was isolated from the seeds of Psoralea corylifolia, a tree native to China with various uses in traditional medicine, followed by extraction with ether and column chromatog. combined with silica gel and octyldecyl silane. In this study, the antimicrobial activities of bakuchiol against some oral microorganisms were evaluated in vitro. The cell growth of Streptococcus mutans was inhibited in a bakuchiol concentration-dependent manner, and growth of S. mutans was completely prevented

by 20 µg of bakuchiol per mL. The bactericidal effect of bakuchiol on S. mutans was dependent on temperature and stable under the following conditions: sucrose, 0 to 10% (wt/vol); pH, 3.0 to 7.0; organic acids (3% [wt/vol] citric and malic acids). Bakuchiol showed bactericidal effects against all bacteria tested, including S. mutans, Streptococcus sanguis, Streptococcus salivarius, Streptococcus sobrinus, Enterococcus faecalis, Enterococcus faecium, Lactobacillus acidophilus, Lactobacillus casei, Lactobacillus plantarum, Actinomyces viscosus, and Porphyromonas gingivalis, with MICs ranging from 1 to 4 µg/mL and the sterilizing concentration for 15 min ranging from 5 to 20 µg/mL. Furthermore, bakuchiol was also effective against adherent cells of S. mutans in water-insol. glucan in the presence of sucrose and inhibited the reduction of pH in the broth. Thus, bakuchiol would be a useful compound for development of antibacterial agents against oral pathogens and has great : potential for use in food additives and mouthwash for preventing and treating dental caries.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 27 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

2001:56493 CAPLUS ACCESSION NUMBER:

134:262664 DOCUMENT NUMBER:

Isolation of an $1,3-1,4-\beta$ - glucan TITLE:

> degrading Enterococcus faecium strain from the intestinal tract of chicken and partial

characterization of its novel 1,3-1,4-β-qlucanase

Beckmann, L.; Vahjen, W.; Simon, O. AUTHOR (S):

Faculty of Veterinary Medicine, Free University of CORPORATE SOURCE:

Berlin, Berlin, Germany

Journal of Basic Microbiology (2000), 40(5-6), 303-310 SOURCE:

CODEN: JBMIEQ; ISSN: 0233-111X

PUBLISHER: Wiley-VCH Verlag Berlin GmbH

DOCUMENT TYPE: Journal English LANGUAGE:

An Enterococcus faecium strain with a novel endo

 $1,3-1,4-endo-\beta-glucanase$ (lichenase, E.C. 3.2.1.73) was isolated from the intestinal tract of broiler chicken. The enzyme was secreted into the culture medium and acted exclusively on mixed linked $1,3-1,4-\beta$ glucans as determined with a reducing sugar assay. The purified enzyme has its isoelec. point at pI 4.8, maximum activity was determined at pH 6.5 and 40°. Thermal stability of the enzyme was low, but high pH stability and high residual activity was observed after incubation in digesta

samples from the chicken intestine. Multiple lichenase activities were obtained from culture supernatants on SDS-PAGE and native zymograms, but it is concluded that the lichenase consists of one active protein at 30.5 kDa and addnl. polypeptides of unknown function.

REFERENCE COUNT: 24

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 28 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:190936 CAPLUS

DOCUMENT NUMBER: 132:231933

Compositions of β - glucans and specific TITLE: igiv

INVENTOR(S): Pavliak, Viliam; Fattom, Ali Ibrahim; Naso, Robert B. Nabi, USA

PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE:
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	CENT I	. 01		•	KINI)	DATE			APPL:	ICAT:	ION 1	10.		. D/	AT.E	
	WO	2000	01523	38		A1	-	2000	0323	1	WO 1:	 999-t	JS207	 787		19	9909	914
		W :	ΑE,	AL,	AM,	AΤ,	AU,	AZ,	ΒA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
			DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,
			JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,
			MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,
			TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	zw					
		RW:	GH,	GM,	KE,	LS,	MW,	:SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	ΒE,	CH.,	ĊŸ,	DE,.
		• •	DΚ,	ES,	FI,	FR,	GB,	GR,	ΙĒ,	IT,	LU,	MĊ,	NL,	PT,	SE,	BF,	ВJ,	CF,
	. •		ĊĠ,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG.		•		
		2344						2000	•									
	ΑU	9960	332			A		2000	0403		AU 1	999-6	50332	2		19	₹990	914
	ΕP	1121	135			A1		2001	8080		EP 1	999-9	9690.	30		1.9	9909	914
••					•			ES,		GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,
			•			,		RO								. :	**	
		6355															99.09	
•	MX.	2001	PA026	668		А		2002	0208	. : [MX 2	0 O I - I	PA26	58	". ·	. 20	00103	314
												•						

US 2002131969 US 7030101 A1 B2 20020919 US 2002-79537 20020222

20060418

US 1998-100146P P 19980914 US 1999-395360 A1 19990914 PRIORITY APPLN. INFO.: WO 1999-US20787 W 19990914

Compns. and kits comprising combinations of $\beta\text{-}$ glucans and AΒ specific Igs are disclosed. The compns. and kits are useful in methods of preventing or treating infection by a pathogenic microorganism, in which β - glucan is administered to a subject, and specific antibodies to a pathogenic microorganism are introduced into the subject. Results showed more than a 1 log reduction of S. aureus bacterial counts in whole blood incubated with glucan supplemented with AltaStaph (an IgIV preparation) while samples supplemented with standard IgIV displayed

the same level of activity obtained with β - glucan alone.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:222783 CAPLUS

130:222403 DOCUMENT NUMBER:

TITLE:

Probiotic nutritional preparation Van Hoey-de-Boer, Klaske Anna; Hageman, Robert Johan INVENTOR(S):

Joseph
PATENT ASSIGNEE(S): N.V. Nutricia, Neth. Eur. Pat. Appl., 9 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. _____ EP 904784 A1 19990331 EP 1997-202900 19970922 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
PRIORITY APPLN. INFO: EP 1997-202900 19970922

AB The invention relates to a nutritional preparation with health promoting action, in particular with respect to the prevention and treatment of disorders of the gastrointestinal tract, comprising 106-1014, preferably 107-1013 viable cells, per g of the total preparation, of each of the following microorganisms: Bifidobacterium; Enterococcus faecium; and a Lactobacillus strain that produces predominantly dextro-rotary lactate.

The nutritional preparation can further comprise a corresponding amount of cells

of a Lactococcus strain or a Micrococcus strain. Also, the preparation preferably contains prebiotic compds., as well as substances that inhibit bacterial adhesion to the wall of the gastrointestinal tract. The preparation can be in the form of a food supplement, a ready-to-use food composition, an infant formula or a tube feeding.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 30 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:136785 CAPLUS DOCUMENT NUMBER: 130:179870

TITLE:

Novel lactic acid bacteria

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

Novel lactic acid bacteria

Oh, Jong Suk

S. Korea

PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.									APPLICATION NO.										
		9907	826			A1		1999			WO							19	980	702
			•	BE,	•		•	•	ES,			₹,	GB,	GR,	IE,	IT,	L	J,	MC,	NL,
	US	6036	•			Α		2000	0314		US	19	98-	1443	6			19	980	127
		2299						1999	0218		CA	19	98-	2299	627			19	980	702
	AU	9881	312			Α		1999	0301		ΑU	19	98-	8131	2			19	980	702
	ΑU	7527	06			B2		2002	0926											
	ΕP	1002	052			·A1		2000	0524		EP	19	98-	9311	04			19	980	702
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB	, GI	₹,	IT,	LI,	LU,	NL,	SI	Ξ,	MC,	PT,
			ΙE,	FI																
	TR	2000	00360)		T2		2000	0721		TR	20	00-	2000	0036	0		19	980	702
	BR	9814	737			Α		2000	1003		BR	19	98-	1473	7			19	980	702
		2001							0828						11				980	702
		2000																	000	207
	US	2003	0778	14		A1		2003	0424		US	20	02-	1225	43			20	020	
PRIO	RITY	APP	LN.	INFO	. :										9				970	807
											KR	19	98-	213			Α	19	980	107
•															2				980	
											US	19	98-	1443	6		A2	19	980	127
											WO	19	98-	KR19	1		W	19	980	702
											US	20	00-	4929	91		В3	20	000	127
AB	Ent	eroc	occus	s sp	p. 1	357.	Lac	toba	cill	us	ggg	. v	20	and	Lact	ocod	cus	3		

Enterococcus spp. 1357, Lactobacillus spp. V20 and Lactococcus spp. 1370, and H2O2-producing streptococci have a potent and lasting inhibitory activity on the production of water-insol. glucan (mutan) and dental plaque in human mouth or the growth of anaerobic bacteria causing gingivitis, periodontitis, and halitosis.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 31 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN

3

ACCESSION NUMBER: 1999:42584 CAPLUS

DOCUMENT NUMBER:

130:105323

TITLE:

Control of acidic gut syndrome with an agent

controlling acid and endotoxin accumulation in the

gastrointestinal tract

INVENTOR(S):

Rowe, James Baber

PATENT ASSIGNEE(S):

Australia

SOURCE:

PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KI			KINI	D DATE				APPL	ICAT		DATE					
					-											
WO 99003	136			A 1		1999	0107		WO 1	998-2	AU49	5		19	99806	526
W:	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
	DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	ΚE,	KG,
	KΡ,	KR,	ΚZ,	LC,	LK,	LR,	LS,	·LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
	NO,	NZ,	ΡĿ,	PT,	RO,	RU,	SD,	SE,	·SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,
	UA,	UG,	US,	UZ,	VN,	YÜ,	ZW								• • • •	
RW:	GH,	GM,	KE,	LS.,	MW;	SD,	SZ,	UG,	ZW,	AT.,	BE,	ĊH,	CY,	DE,	DK,	ES,
	FI,	FR,	GB,	GR,	IE.,	ĮT,	LU,	MC,	ΝĹ,	PT,	SE,	BF,	ВJ,	CF,	CG,	·CI,
	CM,	GA,	GN,	МL,	MR,	NE,	SN,	TD;	TG				-			•
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AU 74609	54		•	B2		2002	0411		· ·		-				•	
EP 10174	402			A1	<u>.</u>	200.0	0712		EP 1	998-	9305	41		1.9	9.806	526
R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	.GB,	GR;	IT,	ĽΙ,	LU,	NL,	SE,	MC,	PT,

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IE, SI, LT, LV, FI, RO
     BR 9810944
                          Α
                                20000926
                                            BR 1998-10944
                                                                   19980626
     JP 2002511865
                          T
                                20020416 JP 1999-505159
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     NZ 502445
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                                20030328
                                            NZ 1998-502445
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     MX 200000064
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                                20010123
                                            MX 2000-64
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     US 6303572
                          В1
                                20011016
                                            US 2000-446801
                                                                   20000210
     US 6468964
                          R1
                                20021022
                                            US 2001-912886
                                                                   20010725
PRIORITY APPLN. INFO.:
                                            AU 1997-7582
                                                                A 19970627
                                            WO 1998-AU495
                                                                W 19980626
                                            US 2000-446801
                                                                A3 20000210
     A method is provided for the treatment or prophylaxis of acidic gut
AB
     syndrome resulting from the accumulation of acid and production of endotoxin
     in the gastrointestinal tract of a human or an animal, the accumulation
     resulting from the fermentation of carbohydrate in the gastrointestinal tract
of ·
     the human or animal. The method comprises administering to said human or
     animal an effective amount of an active agent capable of preventing or
     controlling acid and endotoxin accumulation in the gastrointestinal tract.
REFERENCE COUNT:
                               THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 32 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         1997:660307 CAPLUS
DOCUMENT NUMBER:
                         127:342438
TITLE:
                         Isolation and overexpression of a gene encoding an
                         extracellular \beta-(1,3-1,4)-glucanase from
                         Streptococcus bovis JB1
                         Ekinci, M. Sait; Mccrae, Sheila I.; Flint, Harry J.
AUTHOR (S):
CORPORATE SOURCE:
                         Rowett Research Institute, Aberdeen, AB21 9SB, UK
SOURCE:
                         Applied and Environmental Microbiology (1997), 63(10),
                         3752-3756
                         CODEN: AEMIDF; ISSN: 0099-2240
PUBLISHER:
                         American Society for Microbiology
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                       English
   Streptococcus boyis JB1 was found to produce a 25-kDa extracellular enzyme
     active against \beta-(1,3-1,4)-glucans. A gene was isolated
     encoding a specific \beta-(1,3-1,4)-glucanase that corresponds to this
     size and belongs to glycoside hydrolase family 16. A 4- to 10-fold
     increase in supernatant \beta-glucanase activity was obtained when the
     cloned \beta-glucanase gene was reintroduced into S. bovis JB1 by use of
     constructs based on the plasmid vector pTRW10 or pIL253. The
     \beta-(1,3-1,4)-glucanase gene was also expressed upon introduction of
     the pTRW10 construct pTRWL1R into Lactococcus lactis IL2661 and
     Enterococcus faecalis JH2-SS, although extracellular activity was
     8- to 50-fold lower than that in S. bovis JB1. The \beta-(1,3-1,4)-...
     glucanase purified from the culture supernatant of S. bovis JB1 carrying
     pTRWL1R showed a Km of 2.8 mg per mL and a Vmax of 338 \mumol of glucose
     equivalent per min per mg of protein with barley \beta- glucan as
     the substrate. The S. bovis \beta-(1,3-1,4)-glucanase may contribute to
     the ability of this bacterium to utilize starch by degrading structural
     polysaccharides present in endosperm cell walls.
REFERENCE COUNT:
                               THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS
                         37
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=> FIL STNGUIDE		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	102.96	103.17
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE.	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-24.96	-24.96

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 30, 2007 (20070730/UP).

=> file frosti

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.54 103.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) · SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -24.96

FILE 'FROSTI' ENTERED AT 16:35:56 ON 02 AUG 2007 COPYRIGHT (C) 2007 Leatherhead Food Research Association

FILE LAST UPDATED: 1 AUG 2007 <20070801/UP>

FILE COVERS 1972 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE IN THE BASIC INDEX (/BI) FIELD <><

=> s glucan and "lactic acid"

1411 GLUCAN

936 GLUCANS

1807 GLUCAN

(GLUCAN OR GLUCANS)

11891 "LACTIC"

4 "LACTICS"

11892 "LACTIC"

("LACTIC" OR "LACTICS")

82378 "ACID"

56596 "ACIDS"

107197 "ACID"

("ACID" OR "ACIDS")

11041 "LACTIC ACID"

("LACTIC"(W)"ACID")

L3 48 GLUCAN AND "LACTIC ACID"

=> s glucan and enterococcus

1411 GLUCAN

936 GLUCANS

1807 GLUCAN

(GLUCAN OR GLUCANS)

1208 ENTEROCOCCUS

L4 4 GLUCAN AND ENTEROCOCCUS

=> d 14 1-4

L4 ANSWER 1 OF 4 FROSTI COPYRIGHT 2007 LFRA on STN

AN 668106 FROSTI

TI Constipation ameliorant and food and beverage containing the same

IN Moriya N.; Moriya Y.; Suzuki K.

PA Aureo Co. Ltd

SO Japanese Patent Application

PI A 20040930

AI 20030307

NTE 20040930

DT Patent

LA Japanese

SL English

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ANSWER 2 OF 4 FROSTI COPYRIGHT 2007 LFRA on STN
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ΑN
      666289
               FROSTI
      Compositions and methods for treatment or prevention of psoriasis and
TI
      related disorders.
      Conway P.L.
IN
      VRI Biomedical Ltd
PA
      PCT Patent Application
SO
PΙ
      WO 2005030230 A1
ΑI
      20040930
PRAI
      Australia 20030930
DT
      Patent
LA
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SL
      English
      ANSWER 3 OF 4 FROSTI COPYRIGHT 2007 LFRA on STN
1.4
AN
      526897
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ΤI
      Novel lactic acid bacteria.
      Oh J.S.
IN
SO
      European Patent Application
      EP 1002052 A1
PΙ
      WO 9907826 19990218
AΤ
      19980702
      Korea, Republic of 19970807; 19980107; 19980528
PRAI
DT
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LA
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      ANSWER 4 OF 4 FROSTI COPYRIGHT 2007 LFRA on STN
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AN
      491122
TI
      Novel lactic acid bacteria.
IN
      Oh J.S.
SO
      PCT Patent Application
      WO 9907826 A1
PΙ
     19980702
\mathbf{I} \cdot \mathbf{A} \cdot
PRAI Korea, Republic of 19970807; 19980107; 19980528
      Patent
LA.
      English .
SL English
=> d 13 1-48
      ANSWER 1 OF 48 FROSTI COPYRIGHT 2007 LFRA on STN
L3
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.AN
      Influence of the carbohydrate source on beta-glucan production
      and enzyme activities involved in sugar metabolism in Pediococcus
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ΑÚ ˙
      Velasco S.E.; Yebra M.J.; Monedero V.; Ibarburu I.; Duenas M.T.;
      Irastorza A.
      International Journal of Food Microbiology, 2007, (April 20), 115 (3),
SO
      325-334 (33 ref.)
      ISSN: 0168-1605
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LA
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      and Lactobacillus plantarum.
ΑÚ
      di Cagno R.; de Angelis M.; Limitone A.; Minervini F.; Carnevali P.;
      Corsetti A.; Gaenzle M.; Ciati R.; Gobbetti M.
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LA
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      Microbial polysaccharides.
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      Giavasis I.; Biliaderis C.G.
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      2006, 167-213 (224 ref.)
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ΑU
      Decker K.J.
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      Lactobacillus reuteri glucosyltransferase.
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      van Geel-Schutten G.H.; Dijkhuizen L.; Rahaoui H.; Leer R.J.
      Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek
DΔ
      TNO
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PΙ
      EP 1672074 A1
ΑI
      20010523
PRAI
      European Patent Office 20000525
DT
     Patent .
LΑ
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      English
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TI
      Pediococcus parvulus gtf gene encoding the GTF glycosyltransferase and
      its application for specific PCR detection of beta-D-glucan
      -producing bacteria in foods and beverages.
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      ISSN: 0362-028X
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      (Food research and development.)
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      Polysaccharides and polyamides in the food industry: properties,
      production and patents, volume 1: polysaccharides., Published by:
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Steinbuchel A.; Rhee S.K.
       ISBN: 3-527-31345-1
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 LA
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       ANSWER 9 OF 48 FROSTI COPYRIGHT 2007 LFRA on STN
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       677606
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 TI
       Application of pure and mixed probiotic lactic acid
       bacteria and yeast cultures for oat fermentation.
 ΑU
       Angelov A.; Gotcheva V.; Hristozova T.; Gargova S.
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       Published by: John Wiley & Sons Ltd. Website: http://www.wiley.co.uk/sci
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       ISSN: 0022-5142
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      Highly hydrolytic reuteransucrase from probiotic Lactobacillus reuteri
       strain ATCC 55730.
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 TI:
       Digestion of barley malt porridges in a gastrointestinal model: iron
       dialysability, iron uptake by Caco-2 cells and degradation of beta-
       Haraldsson A.-K.; Rimsten L.; Alminger M.; Andersson R.; Aman P.;
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ΤT
       Constipation ameliorant and food and beverage containing the same.
IN
      Moriya N.; Moriya Y.; Suzuki K.
PA
      Aureo Co. Ltd
       Japanese Patent Application
 SO
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A 20040930

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SL
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      strains isolated from wine and cider.
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      ijfoodmicro
      ISSN: 0168-1605
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      Application of biological acidification to improve the quality and
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      processability of wort produced from 50 percent raw barley.
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AN
     640237
               FROSTI
      Process of producing mannitol and homopolysaccharides.
TΙ
      van Geelschutten G.H.; Binnema D.J.; van der Maarel M.J.E.C.
IN
PΑ
      Nederlandse Organisatie voor Toegepastnatuurwetenschappelijk Onderzoek
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SO
      European Patent Application
PΙ
      EP 1417326 A1
      WO 2003010325 20030206
      20020724
AΤ
PRAI
      European Patent Office 20010725
DT
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LA
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      ANSWER 20 OF 48 FROSTI COPYRIGHT 2007 LFRA on STN
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               FROSTI
      Phytate content is reduced and beta-glucanase activity suppressed in
TI
      malted barley steeped with lactic acid at high
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      P.; Sandberg A.S.
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      653-662 (35 ref.)
      Published by: John Wiley & Sons Ltd. Address: Baffins Lane, Chichester,
      West Sussex PO19 1UD, UK. Telephone: +44 (1243) 779777. Fax: +44 (1243)
      775878. Email: customer@wiley.co.uk Web: www.wiley.co.uk/sci or
      www.interscience.wiley.com
      ISSN: 0022-5142
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              FROSTI
ΤI
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      acid bacteria.
·TN
      van Geel-Schutten G.H...
      Nederlandse Organisatie voor Toegepastnatuur-Wetenschappelijk Onderzoek
PA
      European Patent Application
SO
PΙ·
      EP 1409708 A2
      WO 2003008618 20030130
AΙ
      20020722
      European Patent Office 20010720; 20010725
PRAI
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TI
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      Food and Drink Technology, 2003; (May), 2 (5), 26-27 (0 ref.)
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      Martensson O.; Duenas-Chasco M.; Irastorza A.; Oste R.; Holst O.
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Lebensmittel-Wissenschaft und -Technologie (LWT), 2003, 36 (3), 353-357

SO

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      Published by: Academic Press. Address: 32 Jamestown Road, London NW1
      7BY, UK. Telephone: +44 (20) 8308 5700. Web:
      www.academicpress.com/lwt and www.idealibrary.com
      ISSN: 0023-6438
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ΤI
      In situ production of exopolysaccharides during sourdough fermentation by
      cereal and intestinal isolates of lactic acid
      bacteria.
ΑU
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      Published by: American Society for Microbiology (ASM). Address: 1752 N
      St., N.W., Washington DC 20036-2804, USA. Telephone: +1 (202) 737 3600.
      Web: www.journals.asm.org or www.asmusa.org
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T. 3
ΔN
      605308
               FROSTI
ΤI
      Process of producing mannitol and homopolysaccharides.
TN
      van Geelschutten G.H.; Binnema D.J.; van der Maarel M.J.E.C.
PA
      Nederlandse Organisatie voor Toegepastnatuurwetenschappelijk Onderzoek
      TNO
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SO
PΙ
      WO 2003010325 A1
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      Patent
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      English
SL
      English
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               FROSTI.
TT
      Novel glucans and novel glucansucrases derived from
      lactic acid bacteria.
IN
      van Geel-Schutten G.H.
      Nederlandse Organisatie voor Toegepastnatuur-Wetenschappelijk Onderzoek
     TNO
     PCT Patent Application
    WO 2003008618 A2
      20020722
      European Patent Office 20010720; 20010725
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      Glucan incorporating 4-, 6-, and 4, 6-linked anhydroglucose
      van Geel-Schutten G.H.; Dijkhuizen L.; Rahaoui H.; Leer R.-J.
IN
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PA
SO
      United States Patent
PΤ
      US 6486314 B 20021126
AΙ
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